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THE VARIATIONS OF THE MUSCLES IN MAN.

THE racial variations in the soft parts of the human frame is a much more difficult study than that which limits itself to the bony skeleton. For that reason anthropologists will welcome the publication of the results obtained by the late Dr. H. Chudzinski, who for twenty years occupied himself with such investigations. They are in part contained in a volume of 226 pages, edited by the eminent anatomist, Dr. L. Manouvrier, and published by the Anthropological Society of Paris. The comparisons are most complete between the white and black races, as of those, Dr. Chudzinski could, in Paris, secure good specimens. As for the 'yellow race,' in which he included a Carib, a Peruvian, a black from Pondichery and two natives of Farther India, evidently little value can be assigned its peculiarities, as based on such examples. (*Variations musculaires dans les races humaines*, Paris, Masson et Cie, 1898.)

PASSAMAQUODDY LITERATURE.

PREVIOUSLY in these notes (SCIENCE, May 13, 1898) I have referred to Professor J. D. Prince's interesting studies in the Passamaquoddy dialect. He has supplemented those by an article in the *Annals of the New York Academy of Sciences* (Vol. XI., No. 15), giving, from pure native sources, an outline of Wabanaki history previous to the establishment of the intertribal *modus vivendi* set forth in the 'Wampum laws.' The account illustrates the primitive condition of murderous warfare which prevailed, and the efforts of the wiser heads of the hordes to put a stop to such destructive excesses.

The paper ends with a Passamaquoddy love song which is presented in the original, with an English translation, and explanatory notes of the text.

D. G. BRINTON.

UNIVERSITY OF PENNSYLVANIA.

SCIENTIFIC NOTES AND NEWS.

WE are now able to give some further details in regard to the meeting of the American Society of Naturalists, and of the Societies holding their meetings in New York City in conjunction with it. The first meeting of the Society of Naturalists will be in the American Museum of Natural History on the evening of Wednesday, December 28th. After a welcome by the President of the Museum, Mr. Morris K. Jesup, Professor Henry F. Osborn will give a lecture on 'Collections of Fossil Mammals and their Care,' and will afterwards receive the members of the Societies at his house. The chief meeting of the Naturalists will be held on the afternoon of December 29th at Schermerhorn Hall, Columbia University. After the Societies have been welcomed by President Low a series of short papers will be read on 'Advances in Methods of Teaching' as follows:

Zoology: Professor E. G. Conklin, University of Pennsylvania.

Anatomy: Professor George S. Huntington, Columbia University.

Physiology: Professor W. T. Porter, Harvard Medical School.

Psychology: Professor Hugo Münsterberg, Harvard University.

Anthropology: Dr. Franz Boas, Columbia University.

Botany: Professor W. F. Ganong, Smith College.

The annual dinner will be held at the Hotel Savoy, and after the dinner the President of the Society, Professor Bowditch, will make an address. Visits to the Botanical and Zoological Parks have been arranged for December 30th.

THE other Societies holding scientific sessions simultaneously with the Naturalists open their meetings on Wednesday, except the Anthropologists of the American Association, who begin on Tuesday. Announcements of these meetings have been or will be sent out by the Secretaries to members, and further information can be obtained from them. The addresses of the several Secretaries are as follows:

Dr. H. C. Bumpus, Brown University, Providence, Secretary of the The American Society of Naturalists.

Dr. G. H. Parker, 6 Avon Place, Cambridge, Mass., Secretary of The American Morphological Society.

Dr. D. S. Lamb, 800 Tenth Street, N. W., Wash-

ington, D. C., Secretary of The Association of American Anatomists.

Dr. F. S. Lee, Columbia University, New York City, Secretary of The American Physiological Society.

Dr. Livingston Farrand, Columbia University, New York City, Secretary of the American Psychological Association.

Mr. W. W. Newell, Cambridge, Mass., Secretary of The American Folk-Lore Society.

Dr. W. F. Ganong, Smith College, Northampton, Mass., Secretary of the Society for Plant Morphology and Physiology.

Dr. H. M. Saville, American Museum of Natural History, New York, Secretary of Section H (Anthropology) of the American Association for the Advancement of Science.

PROFESSOR WILLIAM TRELEASE, Director of the Missouri Botanical Garden, and Mrs. Zelia Nuttall have been elected honorary members of the Sociedad Científica (Antonio Alzate), of Mexico.

M. LEVY, the mining engineer, Paris, and Professor Lindström, Director of the Natural History Museum of Stockholm, have been elected corresponding members of the Berlin Academy of Sciences.

THE MUNICH Academy of Sciences has elected the following members: Professor Fuchs, of Berlin (mathematics); Professor Barraix, of Lille (geology); Professor Lie, of Christiania (mathematics); Professor Hartig, of Munich (botany); Professor Pringsheim, of Munich (mathematics), and Professor Oberhummer, of Munich (geography).

PROFESSOR G. FREDERICK WRIGHT, of Oberlin College, has made plans for a trip around the world in 1900, for the purpose of studying geological phenomena. He will visit Hawaii, Japan, cross Asia, following the line of the new Siberian railroad, studying especially the Siberian glacial drift, a field as yet untouched; thence, after a study of the region around the Caspian Sea, he will return to the United States, the whole trip occupying about nine months.

PROFESSOR JAMES E. KEELER, the recently appointed Director of the Lick Observatory, was given a reception and banquet on October 15th, at San Francisco, by the members of the faculties

of the University of California. There were about sixty present. Addresses of welcome were made by the President of the University and Professor Soulé, and Professor Keeler replied.

DR. WILLIAM C. KRAUSS, of Buffalo, N. Y., has been elected President of the American Microscopical Society.

A FURTHER grant of £250 has been made from the Worts Travelling Scholars' Fund of Cambridge University to Dr. Haddon, towards defraying the expenses of the scientific expedition to the Torres Straits under his direction for the purpose of making anthropological investigations.

THE French Institute announces as the subject of the Crouzet prize (3,000 fr.) for 1901, 'The Theory of Evolution in Nature and in History.'

THE French Geographical Society held a special session on November 19th in honor of the explorer M. Gentil. M. Milne-Edwards, who presided, after congratulating M. Gentil on his remarkable explorations in the neighborhood of Lake Tchad, announced that the Society had awarded to him its large gold medal for the year 1899.

THE monument erected to Charcot, the great French neurologist, before the Salpêtrière Hospital, Paris, was unveiled on December 4th. M. Leygues, the Minister of Public Instruction, made an address.

SIR GEORGE STOKES was elected Lucasian professor of mathematics at Cambridge on October 28, 1849, and the current academical year is thus the 50th year of his tenure of the chair. The Council of the University, having regard to the acknowledged eminence of Sir George Stokes and to the rarity of such an event as a 50 years' tenure of a professorship in the University, are of opinion that some formal celebration of the completion of this period should be held towards the end of the present academic year, and that a number of distinguished men of science, and also representatives of universities and other learned bodies at home and abroad, should be invited to participate in the celebration. They have considered various dates that are suitable for the celebration, and

have come to the conclusion that June 1 and 2, 1899, will be the most convenient. The Council recommend that a sum of £400 be placed at their disposal for the celebration.

MR. RICHARD BANNISTER, late Deputy-Principal of the Government Laboratory, says the *London Times*, was presented, on November 21st, in the hall of the Civil Service Volunteers at Somerset House, with a testimonial which had been subscribed for by his colleagues and friends in the department from which he has recently retired after a service of 42 years. In making the presentation Dr. Thorpe, F.R.S., the Principal Government Chemist, after referring to Mr. Bannister's long and varied experience in the Government Laboratory, spoke of his work outside the department, with which the public were perhaps better acquainted. His administration of the Food and Drugs Act and his numerous appearances before Royal Commissions and Parliamentary Committees, as well as his selection as a juror at several of the South Kensington Exhibitions, were evidences of the value in which his vast and unrivalled experience, not only in chemistry, but in the trading and commercial interests connected with it, were held. Mr. Steele, late Chief Inspector of Excise, and others also bore witness to the value of Mr. Bannister's services both to the department and the public generally.

THE death is announced of Professor George T. Allman, F.R.S. He was born in Ireland in 1812, and was appointed professor of botany in Dublin in 1844. In 1855 he was called to Edinburgh, and was there professor of natural history till 1870. He described the hydroids collected by the Challenger Expedition, and published a number of monographs treating of the invertebrates.

WE regret also to announce the deaths of M. J. N. Raffard, a French inventor; of Herr A. Hubner, the historian, General Secretary of the Vienna Academy of Science, and of Sir George Baden-Powell, who has in many ways promoted scientific undertakings in Great Britain.

A CIVIL SERVICE examination will be held on December 15th for the position of Assistant in

Entomology, Office of Experiment Stations (Department of Agriculture). The examination will consist of the subjects mentioned below, which will be weighed as follows:

Biology and entomology	50
French or German (translation of scientific literature)	10
Editing and abstracting	10
Essay	15
Training and experience.....	5
Additional modern languages, or veterinary science.....	10
Total.....	100

LIEUTENANT A. P. HAYNE, an instructor in the agricultural department of the University of California, now stationed with one of the California regiments at Manila, has been detailed to conduct an official investigation into the agricultural resources of the Philippines, and to make a report of the results to Washington.

THE Secretary of State has received a cable message from United States Consul Gibbs at Tamatave, Madagascar, saying that the bubonic plague has broken out at that place.

THE Valentine Museum at Richmond, Va., was formally opened to the public on November 21st. It is a gift to Richmond by the late Mann S. Valentine, and includes, housed in his recent mansion, his valuable collection of books, oil-paintings, manuscripts and casts, supplemented by scientific collections of anthropological specimens. The will of Mr. Valentine expresses his desire that the Museum be closely associated with and an aid to the educational institutions of the State; that it publish literary and scientific papers and preserve objects of antiquity compatible with the amount of endowment of the Museum.

THE University of Michigan Museum has been enriched by a gift of the collection of musical instruments brought together by Frederick Stearns. In presenting this collection, of nearly 1,000 pieces, Mr. Stearns turned over the results of fifteen years' research and over \$25,000 expenditure. The present value of the collection is much greater than its original cost. Among other things, it illustrates the evolution of several musical instruments from primitive times down to the present.

THE New York State College of Forestry has secured its 30,000-acre demonstration area of Adirondack forest. The terms of sale are agreed on, and only a survey delays the formal turning over of the property. The tract lies in Franklin county, to the south of Saranac Lake, and partly upon the lower slope of Mt. Seward. It contains some virgin forest, some from which lumbermen have taken the choice timber, and some from which forest fires have taken all the timber. The College can, therefore, at the start demonstrate all sides of forestry, from planting bare tracts to lumbering and getting the logs to market.

THE Ludwig Institute courses of free lectures are now being given on the evenings of Mondays and Thursdays at the Philadelphia Academy of Natural Sciences. Dr. Edward J. Nolan has given two lectures on the literature of natural history. Mr. Witmer Stone and Professor Henry A. Pillsbury are at present giving courses respectively on vertebrate zoology and on the oyster and the clam. After Christmas Dr. Benjamin Sharp will give a course on comparative anatomy and physiology, Dr. Henry Skinner a course on entomology, Mr. Stewardson Brown a course on botany and Dr. Seneca Egbert a course on hygiene.

A CABLEGRAM to the New York *Evening Post* states that Mr. George Murray's deep-sea expedition, to the plans of which we recently referred, has completed its work in the North Atlantic. Its main object was to obtain further information regarding the vertical range of life in the sea, especially to test Professor Agassiz's theory that the intermediate depths of ocean are uninhabited, life being confined to the uppermost 500 fathoms and the lowest 100 fathoms. Depths of 1,370 and 1,835 fathoms were reached, samples of typical globigerina ooze being brought up from the latter. The full bearing of the results of the expedition must await many months of sorting and cataloguing of collections, but the general impression of the members of the expedition is that the Agassiz theory will not be maintained.

A SPECIAL despatch from Yeniseisk, on the river Yenissi, in eastern Siberia, announces the arrival at the mouth of the river of an expedition that

had gone in search of Herr Andrée, the aeronaut. The expedition was wrecked while crossing from the delta of the river Lena to the river Olenek, which flows into the Arctic Ocean southwest of Bennett and Delong Island, but managed to reach an uninhabited island about 120 miles from the mouth of the Olenek. The party was ice-bound for seventeen days before it was succored.

M. THIBEAUT, Chargé d'Affaires of France, has notified Secretary Hay that the French government is about to adopt precautionary measures against the introduction from this country of the San José scale, and that decrees will be issued prohibiting the importation of trees, shrubs and plants from the United States and requiring an inspection of all fruits, fresh and dried, at the point of landing in France.

UNIVERSITY AND EDUCATIONAL NEWS.

THE Lawrence Scientific School, Harvard University, has received \$10,000 from Mr. J. H. Jennings, of the class of '77, for the establishment of a scholarship. The scholarship for the current year goes to Mr. T. F. Sanborn.

JAMES STILLMAN, of New York, has given \$50,000 to Harvard College to cover the cost of land and buildings for a projected Harvard Infirmary, which will bear the name of the donor. In addition, Mr. Stillman will contribute \$2,500 annually for four years.

THE will of the late Charles P. Wilder, of Wellesley Hills, bequeathes \$102,000 to Mount Holyoke College, and the trustees of Wellesley College announce a gift of \$50,000 made by Mr. Wilder before his death. No conditions are attached to the gift.

THE Catholic University of Washington has received the information that by the will of Daniel T. Leahy, of Brooklyn, it receives \$10,000. No instructions accompany the bequest.

WE have been able to record recently two important gifts to the University of Cincinnati, including the gift of a library building by Mr. Asa Van Wormer. The University has now been presented by Mr. William A. Proctor with the library of Mr. Robert Clarke, containing 6,704 volumes valued at over \$50,000.